

METHODS AND SYSTEMS USING FIELD-BASED LIGHT SCATTERING  
SPECTROSCOPY

ABSTRACT OF THE DISCLOSURE

The present invention relates to systems and methods of field-based light scattering spectroscopy. These systems and methods provide for the diagnosis of tissue by measuring the size and distribution of cellular characteristics. Field based measurements provide phase information resulting from the interaction of scatterers within the material and the incident wavefront. These measurements can be used to provide three dimensional images of tissue.